State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-295 Relating to Certification of New Heavy-Duty Engines and Vehicles

CUMMINS ENGINE COMPANY, INC.

Pursuant to the authority vested in the Air Resources Board at Sections 43100, 43101, and 43102 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned at Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9; and

Pursuant to the December 15, 1998 Settlement Agreement between the Air Resources Board and Cummins Engine Company, Inc. and any modifications to the Settlement Agreement;

IT IS ORDERED AND RESOLVED: That the following engines and emission control systems produced by the manufacturer are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Model Year: 2001

Fuel Type: Diesel

	Displacement		Exhaust Emission Control		
Engine Family	<u>Liters</u>	Cubic Inches	Systems and Special Features		
1CEXH0505CAN	8.3	505	Turbocharger		
			Charge Air Cooler		
			Powertrain Control Module		
			Direct Diesel Injection		

Engine models and codes are listed on the attachments.

BE IT ORDERED AND RESOLVED: That the following are the certification exhaust emission standards (Title 13, California Code of Regulations, Section 1956.8) and certification emission levels for this engine family in grams per brake horsepower-hour (g/bhp-hr) under the Federal Test Procedure ("FTP"):

	Total Hydrocarbons	Carbon Monoxide	Nitrogen	Particulate
	riyurucarbons	<u>iviorioxide</u>	<u>Oxides</u>	<u>Matter</u>
Standards	1.3	15.5	4.0	0.10
Certification	0.1	0.7	3.8	0.07

BE IT FURTHER RESOLVED: That pursuant to the Settlement Agreement and any modifications thereof, the aforementioned engine family is also subject to emission standards under the EURO III tests in the Settlement Agreement, including a "Not-to-Exceed" nitrogen oxides emission standard of 4.9 g/bhp-hr. The following are the emission standards and certification levels, in g/bhp-hr, under the EURO III tests:

	Total <u>Hydrocarbons</u>	Carbon Monoxide	Nitrogen Oxides	Particulate Matter
Standards	1.3	15.5	3.9	0.10
Certification	0.02	0.2	3.9	0.05

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Sections 2035 *et seq.*).

BE IT FURTHER RESOLVED: That the aforementioned engine family has been conditionally certified subject to the following conditions:

- 1. The Settlement Agreement is in effect.
- 2. The manufacturer is in compliance with all applicable certification requirements of the Settlement Agreement.

Engines certified under this Executive Order must conform to all applicable California emission regulations and to all applicable terms and conditions of the Settlement Agreement.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 22 nd day of December 2000.

R. B. Summerfield, Chief

Mobile Source Operations Division

ATTACHMENT

Engine Model Spramary Form

Manufacturer: Cummins Engine Company, Inc.

Engine category: On-highway HDDE EPA Engine Family: 1CEXH0505CAN

Mfr Family Name: 413N

Process Code: New Submission

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7.Fuel Rate: nm/stroke@peak torque	198	180	180	198	
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RPM ss)	400	400	400	400	
6.Torque @ RPM (SEA Gross)	1050@1400	950@1400	950@1400	1050@1400	
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5.Fuel Rate: lbs/hr) @ peak HP (for diesels only)	6	~	~	_	
5.Fuel Rate: s/hr) @ peak or diesels onl	120	112	112	12(
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4.Fuel Rate: v/stroke @ peak H (for diesel only)	17	16	16	1	
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)					
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3.BHP@RPM (SAE Gross)	3200	3200	3200(3200	
3.BHP@RPM (SAE Gross)	350@2000	330@2000	330@2000	350@2000	
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1.Engine Code 2.Engine Model					
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I.Eng	2695,FR90675	2964;FR90674	2964;FR90819	2695;FR90820	
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